



innovative chemical technologies, inc.

## **FLEXIWET NI-M100**

### **TECHNICAL DATA SHEET**

- ◆ **Fluorinated Nonionic Surfactant**
- ◆ **Outstanding Wetting Properties: Perfect Choice For Wetting Difficult To Wet Surfaces**
- ◆ **Stable And Effective In Hard Water**
- ◆ **Stable In Concentrated Acids, Bases And Oxidizing Solutions**
- ◆ **Low Use Levels Required (10 -100 ppm are typical)**
- ◆ **100% Active And Compatible With Many Non-Aqueous Systems**

### **APPLICATIONS**

- ◆ **Floor Polishes/Strippers**
- ◆ **Paints & Coatings**
- ◆ **Caustic Bottle Washing**
- ◆ **Acid Based Cleaners**
- ◆ **Bleach Based Cleaners**

## TECHNICAL INFORMATION

Flexiwet NI-M100 is a water soluble nonionic fluorosurfactant that contains no water or solvents. A low-melting waxy brown paste, **Flexiwet NI-M100 should be melted and mixed well immediately prior to use to ensure consistent performance.** The absence of any solvent or water makes Flexiwet NI-M100 ideal in water sensitive systems, 100% solids and/or high solids applications, and as an additive to existing systems wherein minimal modification to the overall formulation is desirable. For those who prefer working with liquids, a 25% aqueous version (Flexiwet NI-M) is also available.

Dramatic surface tension reduction of all types of aqueous systems can be achieved with the addition of 0.001 to 0.01% of Flexiwet NI-M100. It performs well and is stable in severe thermal and chemical environments (strong acid, base or oxidizing solutions). Low surface tensions can be achieved in both highly alkaline and highly acidic systems.

Flexiwet NI-M100 is an excellent choice for wetting difficult to wet surfaces such as plastics, oily substrates, waxy surfaces, and silicone and fluoropolymer treated fabrics because the surface tension of aqueous solutions and emulsions can be reduced to 20 dynes/cm. This low surface tension results in better wetting, spreading, and penetration which translates into improved film uniformity, enhanced adhesion, reduced pinholes and craters for coatings, reduced droplet size and therefore less water spotting, and smoother and more even films for finishes and polishes. It also translates into better wetting and penetration of cleaning solutions which makes them more effective.

Flexiwet NI-M100 provides far greater surface tension reduction than can be achieved with either hydrocarbon or silicone based surfactants. When used in conjunction with “conventional” hydrocarbon surfactants, it is possible to achieve a system that not only dramatically reduces surface tension, but also lowers interfacial tension resulting in a liquid that easily wets and spreads on otherwise hard to wet surfaces.

## TYPICAL PROPERTIES

Appearance	Yellow to Brown Waxy Solid
Odor	Mild
pH (1% solution in water)	4.0-8.0
Water Solubility	Soluble
Melting Point	< 55°C

## PACKAGING/HANDLING

Flexiwet NI-M100 is available in 55 gallon drums (Net Wt. 440 lbs)  
and 5 gallon pails (Net Wt. 40 lbs).  
DOT Classification is Non Regulated.